

Actives

AMINOXYL H100™

AMINOXYL H100™ is a next-generation bio-functional amino acid complex specifically engineered to deliver comprehensive hair architecture support and follicular nutritional optimization through a multi-pathway mechanism of action. The formulation is designed on the biomimetic principle: replicating the natural amino acid composition of human hair keratin while adding targeted biological actives (Arginine for vasodilation, Lysine for mineral catalysis, Zinc PCA for androgenic regulation) that address the most critical failure points in hair and scalp health.

THE FORMULA

- Cysteine
- Proline
- Lysine
- Arginine
- Glycine
- Zinc PCA

MECHANISM OF ACTION

AMINOXYL H100™ is built on four engineering principles, each directly addressable by the ingredient matrix:

- **Keratin-Mimetic Profile:** The amino acid blend precisely mirrors the ~%80 amino acid composition of the hair shaft, maximizing biointegration and minimizing immunological recognition as "foreign" – the basis of superior substantivity.
- **Dual-Action Architecture:** Operates simultaneously on the Structural layer (keratin and collagen repair) and the biological layer (sebum regulation, DHT modulation, microcirculation). No competing actives are required.
- **Targeted Delivery:** All amino acids have molecular weight <200 Da, ensuring transdermal penetration through the follicular ostium to the dermal papilla level without mechanical delivery enhancement.
- **Synergistic Interaction:** The ratio of structural actives (Cys, Pro, Gly) to metabolic actives (Arg, Lys) to regulatory actives (Zinc PCA) is calibrated to the 1.20:0.80:0.70:1.00:0.80:0.50 weight ratio for optimal combined efficacy.

APPLICATIONS

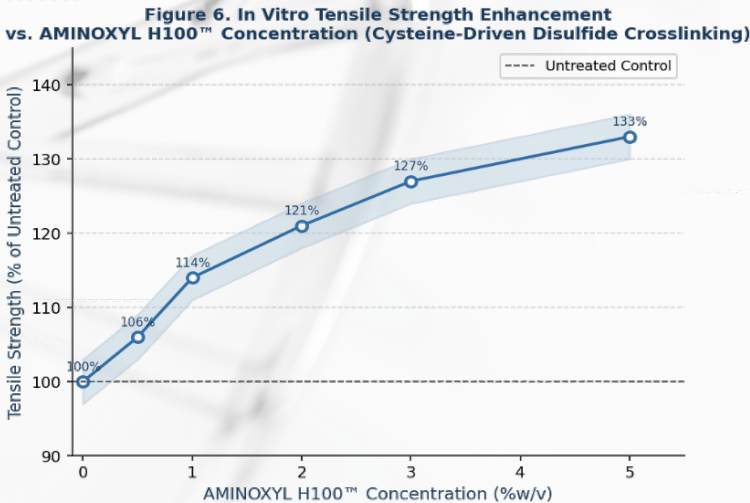
- Professional ampoule
- Daily serum
- Scalp tonic
- Spray mist
- Booster serum

TRICHONOMICS

Parameter	Outcome
Tensile strength improvement	↑ 33–5% (conc)
Alkali solubility (fiber repair)	↓ 50–53%
Mechanical hair loss	↓ 43.1%
Hair density	↓ 27.3% hairs/cm²

CLINICAL OUTPUT

STUDY / MODEL	TEST SYSTEM	KEY PARAMETER	RESULT / OUTCOME
Tensile Strength (Trichometer)	Isolated Human Hair Tresses	Breaking force (mN)	+%33 increase at %5 concentration vs. untreated control



COMPATIBILITY

Works synergistically with:

- Quinosine+™
- Caffeine
- Peptides (e.g., copper peptides)
- Hyazil system



INDICATIONS

- Hair Thinning & Post-Stress Shedding
- Damaged / Chemically Treated Hair
- Weak Root Anchoring / Hair Fall
- Dandruff / Malassezia-Associated